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(54) **MOTION LAYER DECOMPOSITION
CALIBRATION OF X-RAY CT IMAGERS**

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A61B 6/4233; **A61B 6/4441**; **A61B 6/58**;
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(57) **ABSTRACT**

An x-ray computed tomography system (14) includes a gantry (15), a plurality of elements (18), and one or more processors (28). The gantry (15) moves to different orientations and generates x-ray data which includes image projection data at a plurality of the orientations. The plurality of elements (18) connect to the gantry and cause x-ray attenuation of the generated projection data. The one or more processors (28) are programmed to receive (60) the generated x-ray data and decompose (62) the received image projection data into indications of relative positions of the plurality of elements at different orientations of the gantry.

20 Claims, 5 Drawing Sheets

